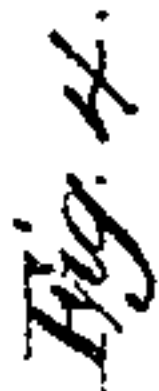


IV^o 9,158.

Patented July 27, 1852.



UNITED STATES PATENT OFFICE.

HALSEY D. WALCOTT, OF BOSTON, MASSACHUSETTS.

GRADUATED CUTTER FOR CLOTH AND OTHER SUBSTANCES.

Specification of Letters Patent No. 9,158, dated July 27, 1852.

To all whom it may concern:

Be it known that I, HALSEY D. WALCOTT, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Cutters for Cutting Slits of a Definite Length, such as Buttonholes, in Cloth or other Similar Material; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, taken in connection with the accompanying drawing, making part of this specification, in which—

Figure 1, is a side elevation; Fig. 2, a top view; Fig. 3, a transverse section on the line *x* of Fig. 1; and Fig. 4, is a diagram showing the application of the invention to circular cutters.

The subject matter of my invention is an improvement which is applicable to cutters which cut against a bed; or, to two cutters acting together like shear blades; both of which are well known devices for cutting cloth, leather, sheet metal and other similar materials; by means of which improvement, slits of any required length may be cut with the same cutter, varying from a point up to the entire length of the cutting edge.

This improvement consists in making the bed longitudinally adjustable in relation to the cutter (or vice versa), so as to vary the length of the cutting edge which shall come in contact with the bed and consequently the length of the incision that will be made by them.

The letters of reference in the drawings indicate like parts in all the figures.

Figs. 1, 2, and 3, represent the improvement as applied to a button-hole cutter, which is arranged to be used in the hand, like a pair of shears, of which A and B represent the two levers or blades. To the lever A, the cutter C is attached, as shown, having a straight edge which is set nearly radial to the center *a* of the levers. It is made of sufficient length to make an in-

cision as long as is necessary. To the lever B is attached the bed D which sustains the cloth against the action of the cutter C. That part of the upper surface of the bed with which the cutter comes in contact, is provided with a slip of ivory *b* or other similar material, which prevents the cutter from being dulled by touching it.

The bed is made movable and is adjusted in the direction of the edge of the cutter by the screw F which lies in a recess in the lever B and works in a nut attached to the bed. The screw is worked by a milled head *e* in a perfectly obvious manner. Upon the side of the bed D is made a scale graduated to fractions of an inch by means of which the bed may be set so as to make the incision of any required length. This principle of graduating the length of the incision by the relative longitudinal adjustment of the cutter and bed; or of two cutters; as described is susceptible of various applications. It may also be applied to circular cutters or rotary shears as is shown in the diagram Fig. 4; where by adjusting one cutter forward or back in relation to the other, the same result is produced as in the machine represented. Instead of using the cutting apparatus in connection with levers and handles like shears; as shown, it may be connected with any other appropriate mechanical arrangement as this, as this is not the subject of my invention.

What I claim as my invention and desire to secure by Letters Patent is—

The employment of a cutter and bed or their equivalents, made adjustable in relation to each other in the direction of the cutting edge, for the purpose of varying the length of the cut, substantially in the manner herein described.

Boston March 31st 1852.

HALSEY D. WALCOTT.

Witnesses:

WM. C. HIBBARD,
JAS. W. RUTTER.